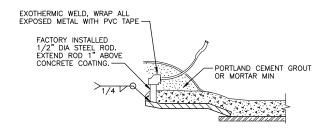


- APPLY WELD CAP DIRECTLY TO PIPE, NOT TO PIPE WRAP. USE PRIMER AS REQUIRED BY THE MANUFACTURER.
- COMPLETELY ENCLOSE WIRE WITHIN WELD CAP.
- 3. REPAIR ANY DAMAGED COATING NOT COVERED BY WELD CAP.

EXOTHERMIC WELD DI & STEEL PIPE



EXOTHERMIC WELD

MCSP & CCP PIPE

— PYROX G-10 INSULATING SLEEVE, LENGTH TO EXTEND FROM FLANGE THROUGH GASKET INTO THE STEEL

WASHER DIELECTRIC FLANGE JOINT TAP SCREW DETAIL

- NOTES: RUNS OF PIPE SHALL HAVE AN ANODE INSTALLED AT EACH END.
- 2. ANODES TO BE SPACED A MIN OF 5 FT APART.

FOR PIPING RUNS GREATER THAN OR EQUAL TO

PIPE DIAMETER NUMBER OF ANODES

OR EQUAL TO 32" 4 PER 100 FT

PER 100 FT (2 MIN)

2 PER 100 FT

LESS THAN OR

18" TO 30"

GREATER THAN

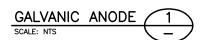
3. ANODES ALONG A RUN OF PIPE SHALL BE EVENLY DISTRIBUTED AND LOCATED ADJACENT TO A PIPE JOINT.

FOR PIPING RUNS LESS THAN 100 FEET INSTALL ANODE AT EACH END OF RUN

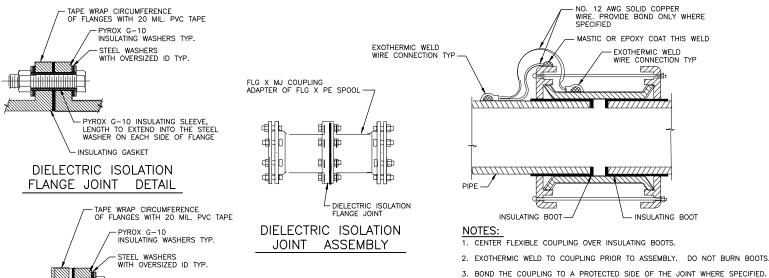
PIPE DIAMETER	NUMBER OF ANODES
LESS THAN OR EQUAL TO 16"	2 (1 AT EACH END)
GREATER THAN OR EQUAL TO 18"	4 (2 AT EACH END)

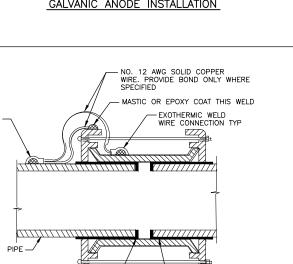
ANODE SCHEDULE

- 1. LOCATE ANODES A MAX OF 3 FEET HORIZONTALLY FROM CENTERLINE OF PIPE.
- PLACE GALVANIC ANODE IN CLEAN NATIVE BACKFILL AND COMPACT TO 12" ABOVE ANODE.
- 3. ANODES MAY BE PLACED UPRIGHT OR HORIZONTALLY, HORIZONTAL ORIENTATION
- 4. ANODE WIRE SHALL BE EXOTHERMIC WELDED DIRECTLY TO PIPE OR INCORPORATED INTO THE JOINT BOND WITH A SPLIT-BOLT CONNECTION.



GALVANIC ANODE INSTALLATION





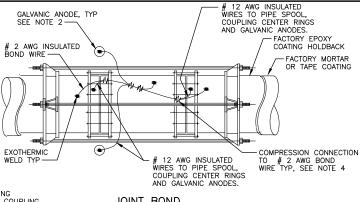
DIELECTRIC ISOLATION FLEXIBLE COUPLING

DESIGNED ACE APPROVED THIS BAR IS NOT ONE INCH, DRAWN ACE SCALE AS SHOWN DATE AUG 2012 THEN ADJUST CHECKED ACE FILE DATE NO REVISIONS SCALES ACCORDING COPYRIGHT @ 2010, ACE CONSULTANTS, INC., ALL RIGHTS RESERVED



CITY OF BELLEVUE WASHINGTON

CATHODIC PROTECTION STANDARD DETAIL - EL-3



DOUBLE FLEX COUPLING
SHOWN, SINGLE FLEX COUPLING
SIMILAR. ONE JOINT BOND
ASSEMBLY SHOWN, TWO REQUIRED JOINT BOND

12 AWG INSULATED WIRES TO PIPE SPOOL, COUPLING CENTER RINGS DIELECTRIC ISOLATION BOOT DIFLECTRIC ISOLATION AND GALVANIC ANODES SLEEVE AND WASHER, GALVANIC ANODE, TYP SEE NOTE 2 — BOTH SIDES OF TIE ROD - FACTORY EPOXY COATING HOLDBACK # 2 AWG INSULATED FACTORY MORTAR OR TAPE COATING # #WL' EXOTHERMIC WELD TYP -TO # 2 AWG BOND WIRE TYP, SEE NOTE TEST STATION WIRES, ONE SHOWN, TWO REQUIRED SEE NOTE 5

NOTES:

NOTES:

NOTES:

DOUBLE FLEX COUPLING
SHOWN, SINGLE FLEX COUPLING
SIMILAR. ONE JOINT BOND
ASSEMBLY SHOWN, TWO REQUIRED

ISOLATION JOINT

- 1. FACTORY EPOXY COAT PIPE, HOLD BACK AREA, LUGS, SPOOL AND FLEXIBLE COUPLINGS.
- 2. TWO ANODES SHOWN, PROVIDE FOUR ANODES TOTAL, TWO EACH JOINT BOND ASSEMBLY.
- 3. WAX TAPE COAT THE ENTIRETY OF THE JOINT INCLUDING THE HOLD BACK AREA, THE SPOOL, THE COUPLINGS, THE HARNESS LUGS AND TIES. WAX TAPE SYSTEM SHALL INCLUDE PETROLATUM PRIMER, PETROLATUM PROFILING MASTIC, PETROLATUM TAPE, AND STRETCH FILM OVERWRAP. PROVIDE PROFILING MASTIC TO COAT COUPLINGS AND FILL POCKETS IN HARNESS RINGS AND LUGS.
- 4. WRAP ELECTRICAL COMPRESSION CONNECTIONS WITH TWO LAYERS OF SELF FUSING BUTYL RUBBER ELECTRICAL INSULATING TAPE AND TWO LAYERS OF VINYL ELECTRICAL TAPE.
- 5. TEST STATIONS, REFERENCE ELECTRODES AND COUPONS NOT SHOWN.

RESTRAINED FLEX COUPLING CORROSION PROTECTION



INSULATING GASKET

January 2022